



Completed on **September 5, 2023**



OVERVIEW

This audit has been prepared for **Scorch** to review the main aspects of the project to help investors make make an informative decision during their research process.

You will find a a summarized review of the following key points:

- ✓ Contract's source code
- ✓ Owners' wallets
- ✓ Tokenomics
- Team transparency and goals
- Website's age, code, security and UX
- ✓ Whitepaper and roadmap
- ✓ Social media & online presence

The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal

- SPYWOLF Team -







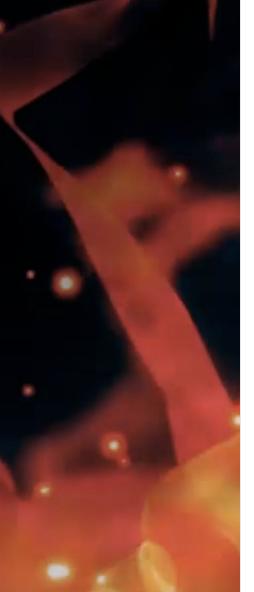
TABLE OF CONTENTS

| Project Description | | 01 |
|--------------------------------|-----------|----|
| Contract Information | | 02 |
| Current Stats | | 03 |
| Vulnerability Check | | 04 |
| Threat Levels | | 05 |
| Found Threats | 06-A/06-E | |
| Good Practices | | 07 |
| Tokenomics | | 08 |
| Team Information | | 09 |
| Website Analysis | | 10 |
| Social Media & Online Presence | | 11 |
| About SPYWOLF | | 12 |
| Disclaimer | | 13 |



Scorch





PROJECT DESCRIPTION

Website is under construction

Scorch is a special burn function project built on ERC-20 network which has taken token burning to whole new level. New kind of tokenomics helps project propell to new levels.

Scorch is a unique feature that enables token holders to burn their tokens and receive ETH in return, all while enjoying the benefits of tax-free transactions. This function offers users a convenient way to convert their tokens into a different cryptocurrency without the burden of taxes that are typically imposed on such transactions.

Release Date: Presale starts in September, 2023

Category: Token



CONTRACT INFO

Token Name

Scorch

Symbol

OTC

Contract Address

0xA3D0e72c8A2fE9127A77412BF34bEe5e4945bd49

Network

Ethereum

Language Solidity

Deployment Date

Sep 02, 2023

Contract Type

Token with fees

Total Supply

10,000,000

Status

Not launched

TAXES

Buy Tax **4%**

Sell Tax
4%



Our Contract Review Process

The contract review process pays special attention to the following:

- Testing the smart contracts against both common and uncommon vulnerabilities
- Assessing the codebase to ensure compliance with current best practices and industry standards.
- Ensuring contract logic meets the specifications and intentions of the client.
- Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- Thorough line-by-line manual review of the entire codebase by industry experts.

Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat

^{*}Taxes can be changed in future



TOKEN TRANSFERS STATS

| Transfer Count | 4 |
|-------------------------|------------------------|
| Uniq Senders | 3 |
| Uniq Receivers | 4 |
| Total Amount | 27431680.000000004 OTC |
| Median Transfer Amount | 10000000 OTC |
| Average Transfer Amount | 6857920.000000001 OTC |
| First transfer date | 2023-09-02 |
| Last transfer date | 2023-09-04 |
| Days token transferred | 3 |

SMART CONTRACT STATS

| Calls Count | 10 |
|-----------------------|--|
| External calls | 6 |
| Internal calls | 4 |
| Transactions count | 7 |
| Uniq Callers | 3 |
| Days contract called | 3 |
| Last transaction time | 2023-09-04 09:21:35 UTC |
| Created | 2023-09-02 18:37:35 UTC |
| Create TX | 0x4aede386bb071f1602e189d78b239613bc6 56848bfa7bada3020df20a5ff0a3e |
| Creator | 0xf23dd54aea42458e430b53477e9b38719fd 0cc9a |

03





VULNERABILITY CHECK

| Design Logic | Passed |
|--|--------|
| Compiler warnings. | Passed |
| Private user data leaks | Passed |
| Timestamp dependence | Passed |
| Integer overflow and underflow | Passed |
| Race conditions and reentrancy. Cross-function race conditions | Passed |
| Possible delays in data delivery | Passed |
| Oracle calls | Passed |
| Front running | Passed |
| DoS with Revert | Passed |
| DoS with block gas limit | Passed |
| Methods execution permissions | Passed |
| Economy model | Passed |
| Impact of the exchange rate on the logic | Passed |
| Malicious Event log | Passed |
| Scoping and declarations | Passed |
| Uninitialized storage pointers | Passed |
| Arithmetic accuracy | Passed |
| Cross-function race conditions | Passed |
| Safe Zeppelin module | Passed |
| Fallback function security | Passed |

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THREAT LEVELS

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

High Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Medium Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Low Risk

Issues on this level are minor details and warning that can remain unfixed.

Informational

Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.



Medium Risk

Owner can change autoswap settings. When minimumTokensBeforeSwap is set to 0 and swapAndLiquifyEnabled is set to true and swapAndLiquifyByLimitOnly is set to true, contract will halt on sell and selling will fail.

```
unction setNumTokensBeforeSwap(uint256 newLimit) external onlyOwner {
   minimumTokensBeforeSwap = (newLimit * totalSupply()) / 10000;
   emit SwapAndLiquifyEnabledUpdated(_enabled);
Function setSwapAndLiquifyByLimitOnly(bool newValue)    public onlyOwner {
function transfer(
uint256 amount
  uire(sender != address(0), "ERC20: transfer from the zero address");
uint256 contractTokenBalance = balanceOf(address(this));
   !inSwapAndLiquify &&
   !checkMarketPair[sender] &&
   swapAndLiquifyEnabled
   if (swapAndLiquifyByLimitOnly)
```

- Recommendation:
 - minimumTokensBeforeSwap's value should be always above 0







Owner can set buy/sell fees up to 5%.

Combined buy+sell = 10%.

When fees are above 0, there will be certain amount of tokens that will be deducted from every transaction that users make.

Deducted amount will be as much as the fees % from total amount that user had bought, sold and/or transferred.

```
function setBuyFee(
   uint256 newDevTax,
   uint256 newBurnTax
) external onlyOwner {
   _buyDevFees = newDevTax;
    buyBurnFees = newBurnTax;
   _totalTaxIfBuying = _buyDevFees.add(_buyBurnFees);
        totalTaxIfBuying <= 5,
        "Total buy fees cannot be more than 5%"
   );
function setSellFee(
   uint256 newDevTax,
   uint256 newBurnTax
) external onlyOwner {
   _sellDevFees = newDevTax;
    sellBurnFees = newBurnTax;
   _totalTaxIfSelling = _sellDevFees.add(_sellBurnFees);
        _totalTaxIfSelling <= 5,
        "Total sell fees cannot be more than 5%"
    );
```

06-B



When liquidity burn is enabled, every 1 hour 0.25% of token supply is burned from the liquidity pair and total supply.

```
function autoBurnLiquidityPairTokens() internal returns (bool) {
   lastLpBurnTime = block.timestamp;
   uint256 liquidityPairBalance = balanceOf(uniswapPair);
   uint256 amountToBurn = liquidityPairBalance.mul(percentForLPBurn).div(
   );
   if (amountToBurn > 0) {
       _burn(uniswapPair, amountToBurn);
       totalBurned += amountToBurn;
   IUniswapV2Pair pair = IUniswapV2Pair(uniswapPair);
   pair.sync();
   return true;
   function _burn(address account, uint256 amount) internal virtual {
   require(account != address(0), "ERC20: burn from the zero address");
   uint256 accountBalance = _balances[account];
   require(accountBalance >= amount, "ERC20: burn amount exceeds balance");
   unchecked {
       _balances[account] = accountBalance - amount;
   _totalSupply -= amount;
   emit Transfer(account, address(0), amount);
```





Users can swap their tokens for eth directly from the contract. They will receive the current eth value of their tokens (without taxes applied) and tokens will be burnt.

For this function to be used, the contract must have sufficient ETH for the trade size.

```
function scorch(uint256 amount) public returns (bool) {
   require(balanceOf(_msgSender()) = amount, "not enough funds to burn");
   address[] memory path = new address[](2);
   path[0] = address(this);
   path[1] = uniswapV2Router.WETH();
   uint[] memory a = uniswapV2Router.getAmountsOut(amount, path);
   uint256 cap;
   if (address(this).balance <= 1 ether) {</pre>
       cap = burnSub1EthCap;
   } else {
       cap = address(this).balance / burnCapDivisor;
   require(a[a.length - 1] <= cap, "amount greater than cap");</pre>
       address(this).balance >= a[a.length - 1],
       "not enough funds in contract"
   );
   transferToAddressETH(_msgSender(), a[a.length - 1]);
   _burn(_msgSender(), amount);
   totalBurnRewards += a[a.length - 1];
   totalBurned += amount;
   emit BurnedTokensForEth(_msgSender(), amount, a[a.length - 1]);
   return true;
```

- Recommendation:
 - Place burn functionality before transferToAddressETH to avoid reentrancy. However eth send via .transfer() relies only on 2300 gas Reference::
 - https://docs.soliditylang.org/en/latest/contracts.html#receive-ether-function





Owner can exclude address from fees.

When address is excluded from fees, the user will receive the whole amount of the bought, sold and/or transferred tokens.

```
function setcheckExcludedFromFees(
   address account,
   bool newValue
) public onlyOwner {
   checkExcludedFromFees[account] = newValue;
}
```





RECOMMENDATIONS FOR

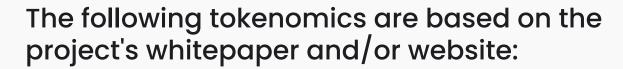
GOOD PRACTICES

- Consider fundamental tradeoffs
- Be attentive to blockchain properties
- 3 Ensure careful rollouts
- 4 Keep contracts simple
- Stay up to date and track development

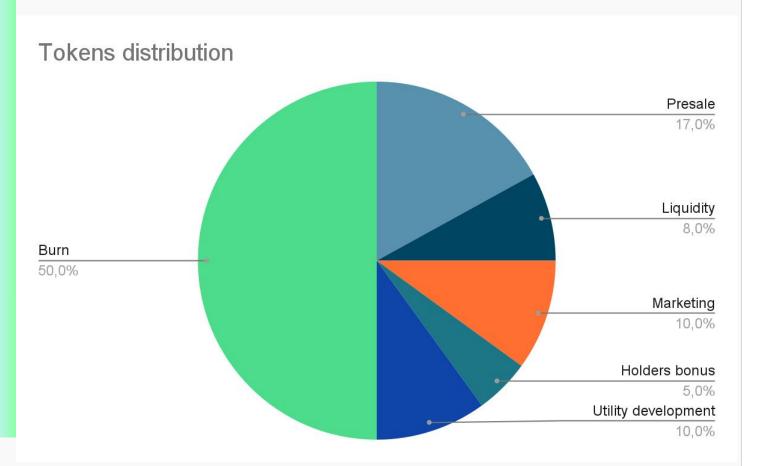
Scorch GOOD PRACTICES FOUND

- The owner cannot mint new tokens after deployment
- The owner cannot set a transaction limit
- The smart contract utilizes "SafeMath" to prevent overflows

07



- 16% Presale
- 8% Liquidity
- 10% Marketing
- 50% Burn
- 10% Utility development
- 5% Holders bonus





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THE

1 The team is annonymous

KYC INFORMATION

No KYC

We recommend the team to get a KYC in order to ensure trust and transparency within the community.



09





Website URL

https://www.scorchcoin.com/

Domain Registry http://www.namecheap.com

Domain Expiration

2024-09-01

Technical SEO Test

Passed

Security Test

Passed. SSL certificate present

Design

Single page design with appropriate color scheme and graphics.

Content

The information helps new investors understand what the product does right away. No grammar mistakes found..

Whitepaper

Well written, explanatory.

Roadmap

Goals set with time frames

Mobile-friendly?

Yes



scorchcoin.com

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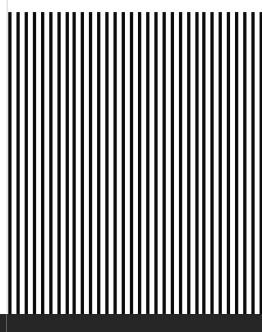
SOCIAL MEDIA

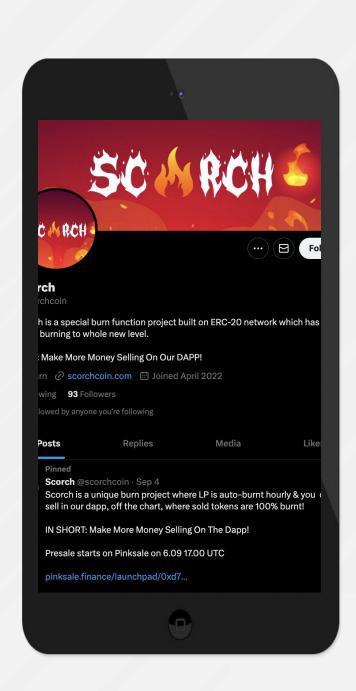
& ONLINE PRESENCE

ANALYSIS

Project's social media

pages are active







Twitter

@scorchcoin

- 60 followers
- 7 total posts
- New account
- Active



Telegram

@scorchcoin

- 197 members
- Active members
- Active mods



Discord

Not available



Medium

Not available



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Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.

While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.

